



81408-4400 sequence listing.txt
SEQUENCE LISTING

<110> Yayon, Avner
Rom, Eran
Thomassen-Wolf, Elisabeth
Borges, Eric

<120> ANTIBODIES THAT BLOCK RECEPTOR PROTEIN TYROSINE KINASE ACTIVATION,
METHODS OF SCREENING AND USES THEREOF

<130> 81408-4400

<140> US 10/734,661
<141> 2003-12-15

<150> US 60/299,187
<151> 2001-06-20

<150> PCT/IL02/00494
<151> 2002-06-20

<160> 106

<170> PatentIn version 3.2

<210> 1
<211> 806
<212> PRT
<213> Homo sapiens

<300>
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<309> 2001-02-21
<313> (1)..(806)

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1 5 10 15

Val Ala Gly Ala Ser Ser Glu Ser Leu Gly Thr Glu Gln Arg Val Val
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Gly Arg Ala Ala Glu Val Pro Gly Pro Glu Pro Gly Gln Gln Glu Gln
35 40 45

Leu Val Phe Gly Ser Gly Asp Ala Val Glu Leu Ser Cys Pro Pro Pro
50 55 60

Gly Gly Gly Pro Met Gly Pro Thr Val Trp Val Lys Asp Gly Thr Gly
65 70 75 80

Leu Val Pro Ser Glu Arg Val Leu Val Gly Pro Gln Arg Leu Gln Val
85 90 95

Leu Asn Ala Ser His Glu Asp Ser Gly Ala Tyr Ser Cys Arg Gln Arg
100 105 110

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Leu Thr Gln Arg Val Leu Cys His Phe Ser Val Arg Val Thr Asp Ala
115 120 125

Pro Ser Ser Gly Asp Asp Glu Asp Gly Glu Asp Glu Ala Glu Asp Thr
130 135 140

Gly Val Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp
145 150 155 160

Lys Lys Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys
165 170 175

Pro Ala Ala Gly Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly
180 185 190

Arg Glu Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His
195 200 205

Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly
210 215 220

Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr
225 230 235 240

Tyr Thr Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln
245 250 255

Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu
260 265 270

Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu
275 280 285

Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro
290 295 300

Tyr Val Thr Val Leu Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu
305 310 315 320

Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu
325 330 335

Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala
340 345 350

Trp Leu Val Val Leu Pro Ala Glu Glu Leu Val Glu Ala Asp Glu

Ala Gly Ser Val Tyr Ala Gly Ile Leu Ser Tyr Gly Val Gly Phe Phe
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 385 390 395 400
 Pro Pro Lys Lys Gly Leu Gly Ser Pro Thr Val His Lys Ile Ser Arg
 405 410 415
 Phe Pro Leu Lys Arg Gln Val Ser Leu Glu Ser Asn Ala Ser Met Ser
 420 425 430
 Ser Asn Thr Pro Leu Val Arg Ile Ala Arg Leu Ser Ser Gly Glu Gly
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 Pro Thr Leu Ala Asn Val Ser Glu Leu Glu Leu Pro Ala Asp Pro Lys
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 Cys Thr Gln Gly Gly Pro Leu Tyr Val Leu Val Glu Tyr Ala Ala Lys
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 Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Asp
 565 570 575
 Tyr Ser Phe Asp Thr Cys Lys Pro Pro Glu Glu Gln Leu Thr Phe Lys
 580 585 590
 Asp Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu
 595 600 605

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Ala Ser Gln Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu
610 615 620

Val Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg
625 630 635 640

Asp Val His Asn Leu Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu
645 650 655

Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr
660 665 670

His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe
675 680 685

Thr Leu Gly Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe
690 695 700

Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr
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His Asp Leu Tyr Met Ile Met Arg Glu Cys Trp His Ala Ala Pro Ser
725 730 735

Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Val Leu
740 745 750

Thr Val Thr Ser Thr Asp Glu Tyr Leu Asp Leu Ser Ala Pro Phe Glu
755 760 765

Gln Tyr Ser Pro Gly Gly Gln Asp Thr Pro Ser Ser Ser Ser Ser Gly
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<213> Artificial Sequence

<220>
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35 40 45

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
50 55 60

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
65 70 75 80

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
85 90 95

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
100 105 110

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
115 120 125

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
130 135 140

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
145 150 155 160

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
Page 9

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 180 185 190

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 195 200 205

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 <213> Homo sapiens

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1 5

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81408-4400 sequence listing.txt

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Asp Ile

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<211> 8

<212> PRT

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Gln Gln Thr Asn Asn Ala Pro Val
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<211> 17

<212> PRT

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Tyr

<210> 23

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<211> 8

81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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<210> 36
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81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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<210> 48
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81408-4400 sequence listing.txt

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<210> 51

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<300>

<301> Knappik et al

<302> Fully synthetic human combinatorial antibody libraries (HuCAL)
based on modular consensus frameworks and CDRs randomized with
trinucleotides.

<303> J Mol Biol

<304> 296

<305> 1

<306> 57-86

<307> 2000-02-11

<308> pubmed/10656818

<309> 2000-02-11

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120

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180

81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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<301> knappik et al
<302> Fully synthetic human combinatorial antibody libraries (HuCAL)
based on modular consensus frameworks and CDRs randomized with
trinucleotides.
<303> j mol biol
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<307> 2000-02-11
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81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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81408-4400 sequence listing.txt

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cgtatgttgt gtggattgt gagcgataa caatttcaca cagggaaacag ctatgaccat	4140
gattacgaat t	4151
<210> 54	
<211> 306	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VL domain	
<220>	
<221> misc_feature	
<222> (253)..(255)	
<223> NNN=ACT OR GTT	
<400> 54	
gatatccaga tgacccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc	60
attacctgca gagcgagcca gggcatttagc agctatctgg cgtggtagcca gcagaaacca	120
ggtaaagcac cgaaactatt aatttatgca gccagcagct tgcaaagcgg ggtcccggtcc	180
cgttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct	240
gaagactttg cgnnttattta ttgccagacc tttggccagg gtacgaaagt tgaaattaaa	300
cgtacg	306
<210> 55	
<211> 327	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VL domain	
<400> 55	
gatatccaga tgacccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc	60
attacctgca gagcgagcca gggcatttagc agctatctgg cgtggtagcca gcagaaacca	120
ggtaaagcac cgaaactatt aatttatgca gccagcagct tgcaaagcgg ggtcccggtcc	180
cgttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct	240
gaagactttg cggtttattta ttgctttcag tatggttcta ttccctctac ctttggccag	300
ggtacgaaag ttgaaattaa acgtacg	327

81408-4400 sequence listing.txt

<210> 56
<211> 309
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<220>
<221> misc_feature
<222> (256)..(258)
<223> NNN=ACT OR GTT

<400> 56
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ctgagctgca gagcgagcca gagcgtgagc agcagctatc tggcgtggta ccagcagaaa 120
ccaggtcaag caccgcgtct attaatttat ggcgcgagca gccgtgcaac tggggtcccg 180
gcgcgtttta gcggctctgg atccggcacg gatTTTACCC tgaccattag cagcctggaa 240
cctgaagact ttgcgnnta ttattgccag acctttggcc aggtacgaa agttgaaatt 300
aaacgtacg 309

<210> 57
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<400> 57
gatatcggtgc tgacccagag cccggcgacc ctgagcctgt ctccgggcga acgtgcgacc 60
ctgagctgca gagcgagcca gagcgtgagc agcagctatc tggcgtggta ccagcagaaa 120
ccaggtcaag caccgcgtct attaatttat ggcgcgagca gccgtgcaac tggggtcccg 180
gcgcgtttta gcggctctgg atccggcacg gatTTTACCC tgaccattag cagcctggaa 240
cctgaagact ttgcgactta ttattgccag cagatgtcta attatcctga taccttggc 300
cagggtacga aagttgaaat taaacgtacg 330

<210> 58
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<400> 58
gatatcggtgc tgacccagag cccggcgacc ctgagcctgt ctccgggcga acgtgcgacc 60
ctgagctgca gagcgagcca gagcgtgagc agcagctatc tggcgtggta ccagcagaaa 120

81408-4400 sequence listing.txt

ccaggtaag caccgcgtct attaatttat ggcgcgagca gccgtgcaac tggggtcccg	180
gcgcgtttta gcggctctgg atccggcacg gatttaccc tgaccattag cagcctggaa	240
cctgaagact ttgcgactta ttattgccag cagactaata atgctcctgt taccttggc	300
cagggtacga aagttgaaat taaacgtacg	330
<210> 59	
<211> 324	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VL domain	
<400> 59	
gatatcgtga tgacccagag cccggatagc ctggcggtga gcctgggcga acgtgcgacc	60
attaactgca gaagcagcca gagcgtgctg tatagcagca acaacaaaaa ctatctggcg	120
tggtaccaggc agaaaccagg tcagccgccc aaactattaa tttattgggc atccacccgt	180
gaaagcgggg tcccgatcg ttttagcggc tctggatccg gcactgattt taccctgacc	240
atttcgtccc tgcaagctga agacgtggcg gtgtattatt gccagacatt tggccagggt	300
acgaaaagttg aaattaaacg tacg	324
<210> 60	
<211> 345	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VL domain	
<400> 60	
gatatcgtga tgacccagag cccggatagc ctggcggtga gcctgggcga acgtgcgacc	60
attaactgca gaagcagcca gagcgtgctg tatagcagca acaacaaaaa ctatctggcg	120
tggtaccaggc agaaaccagg tcagccgccc aaactattaa tttattgggc atccacccgt	180
gaaagcgggg tcccgatcg ttttagcggc tctggatccg gcactgattt taccctgacc	240
atttcgtccc tgcaagctga agacgtggcg gtgtattatt gccagcagta tgattctatt	300
ccttataacct ttggccagggt tacgaaaagtt gaaattaaac gtacg	345
<210> 61	
<211> 315	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VL domain	
<400> 61	
gatatcgcac tgacccagcc agttcagtg agcggctcac caggtcagag cattaccatc	60

81408-4400 sequence listing.txt

tcgtgtacgg gtactagcag ccatgtggc ggctataact atgtgagctg gtaccagcag	120
catccggaa aggccggaa actgatgatt tatgatgtga gcaaccgtcc ctcaggcgtg	180
agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg	240
caagcggaaag acgaagcggaa ttattattgc caggacgtgt ttggcggcgg cacgaagtt	300
accgttcttg gccag	315

<210> 62
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

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tcgtgtacgg gtactagcag ccatgtggc ggctataact atgtgagctg gtaccagcag	120
catccggaa aggccggaa actgatgatt tatgatgtga gcaaccgtcc ctcaggcgtg	180
agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg	240
caagcggaaag acgaagcggaa ttattattgc cagagctatg acatgtataa ttatattgtg	300
tttggcggcg gcacgaagtt aaccgttctt ggccag	336

<210> 63
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

gatatcgac tgacccagcc agcttcagtg agcggctcac caggtcagag cattaccatc	60
tcgtgtacgg gtactagcag ccatgtggc ggctataact atgtgagctg gtaccagcag	120
catccggaa aggccggaa actgatgatt tatgatgtga gcaaccgtcc ctcaggcgtg	180
agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg	240
caagcggaaag acgaagcggaa ttattattgc cagtctcatc attttatga ggttttggc	300
ggcggcacga agttaaccgt tcttggccag	330

<210> 64
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

81408-4400 sequence listing.txt

<400> 64
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catcccggaa aggccgaa actgatgatt tatgatgtga gcaaccgtcc ctcaggcgtg 180
agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg 240
caagcggaaag acgaagcggaa ttattattgc cagagctatg acaataattc ttagtgcgtg 300
tttggcggcg gcacgaagtt aaccgttctt ggccag 336

<210> 65
<211> 306
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<400> 65
gatatcgaaac tgaccagcc gccttcagtgcg caggtcagac cgcgcgtatc 60
tcgtgtacgg gcgatgcgtc gggcgataaaa tacgcgagct ggtaccagca gaaaccgggg 120
caggcgccag ttctgggtat ttatgatgtat tctgaccgtc cctcaggcat cccgaaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca tttagcggcac tcaggcggaa 240
gacgaagcgg attattatttgc ccaaggacgtg tttggcggcg gcacgaagtt aaccgttctt 300
ggccag 306

<210> 66
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<400> 66
gatatcgaaac tgaccagcc gccttcagtgcg caggtcagac cgcgcgtatc 60
tcgtgtacgg gcgatgcgtc gggcgataaaa tacgcgagct ggtaccagca gaaaccgggg 120
caggcgccag ttctgggtat ttatgatgtat tctgaccgtc cctcaggcat cccgaaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca tttagcggcac tcaggcggaa 240
gacgaagcgg attattatttgc ccaaggacgtat gactatttttgc tggcggcggc 300
acgaagttaa ccgttcttgg ccag 324

<210> 67
<211> 327
<212> DNA
<213> Artificial Sequence

81408-4400 sequence listing.txt

<220>
<223> polynucleotide sequence of a VL domain

<400> 67
gatatgaac tgacccagcc gccttcagtg agcggtgcac caggtcagac cgcgctatc 60
tcgttagcg gcgatgcgt gggcgataaa tacgcgagct ggtaccagca gaaaccggg 120
caggcgccag ttctggtgat ttatgatgtat tctgaccgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagagctat gactattctg ctgattatgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 68
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<400> 68
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tcgttagcg gcgatgcgt gggcgataaa tacgcgagct ggtaccagca gaaaccggg 120
caggcgccag ttctggtgat ttatgatgtat tctgaccgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagagctat gactttgatt ttgctgtgtt tggcggcggc 300
acgaagttaa ccgttcttgg ccag 324

<210> 69
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VL domain

<400> 69
gatatgaac tgacccagcc gccttcagtg agcggtgcac caggtcagac cgcgctatc 60
tcgttagcg gcgatgcgt gggcgataaa tacgcgagct ggtaccagca gaaaccggg 120
caggcgccag ttctggtgat ttatgatgtat tctgaccgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagagctat gacggtcctg atctttgggt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 70

81408-4400 sequence listing.txt

<211> 332
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

<220>
<221> misc_feature
<222> (1)..(3)
<223> NNN=GAA OR CAG

<400> 70
nnngtgcaat tggttcagtc tggcgcgaa gtaaaaaac cgggcagcag cgtaaaatg 60
agctgcaaag cctccggagg cacttttagc agctatgcga ttagctgggt gcgc当地
cctggcagg gtctcgagtg gatggcgcc attattccga ttttggcac ggc当地
gc当地cagaat ttcagggccg ggtgaccatt accgcggatg aaagcaccag caccgc当地
atggaactga gcagcctgca tagcgaagat acggccgtgt attattgc当地 gc当地tgg
ggccaggca ccctggtagc ggttagctca gc 332

<210> 71
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

<400> 71
caggtgcaat tggttcagtc tggcgcgaa gtaaaaaac cgggcagcag cgtaaaatg 60
agctgcaaag cctccggagg cacttttagc agctatgcga ttagctgggt gcgc当地
cctggcagg gtctcgagtg gatggcgcc attattccga ttttggcac ggc当地
gc当地cagaat ttcagggccg ggtgaccatt accgcggatg aaagcaccag caccgc当地
atggaactga gcagcctgca tagcgaagat acggccgtgt attattgc当地 gc当地tgg
tggtaaagc cttttctga tggggcccaaggcaccc tggtagcggg tagctca 357

<210> 72
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

<400> 72
caggtgcaat tggttcagtc tggcgcgaa gtaaaaaac cgggcagcag cgtaaaatg 60
agctgcaaag cctccggagg cacttttagc agctatgcga ttagctgggt gcgc当地
cctggcagg gtctcgagtg gatggcgcc attattccga ttttggcac ggc当地
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gcgcagaagt ttcagggccg ggtgaccatt accgcggatg aaagcaccag caccgcgtat	240
atggaactga gcagcctgcg tagcgaagat acggccgtgt attattgcgc gcgtgttaat	300
cattggactt atactttga ttattggggc caaggcaccc tggtgacggt tagctca	357

<210> 73
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

<400> 73	
caggtgcaat tggttcagtc tggcgcggaa gtaaaaaac cgggcagcag cgtgaaagtg	60
agctgcaaag cctccggagg cacttttagc agctatgcga ttagctgggt gcgc当地	120
cctggcagg gtctcgagtg gatgggcggc attattccga ttttggcac ggc当地actac	180
gcgcagaagt ttcagggccg ggtgaccatt accgcggatg aaagcaccag caccgcgtat	240
atggaactga gcagcctgcg tagcgaagat acggccgtgt attattgcgc gcgtgggt	300
ggttgggttt ctcatggta ttattatctt tttgatctt gggccaagg caccctggtg	360
acggtagct ca	372

<210> 74
<211> 332
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

<220>	
<221> misc_feature	
<222> (1)..(3)	
<223> NNN=GAA OR CAG	
<400> 74	
nnngtgc当地 tggttcagag cggcgc当地aa gtaaaaaac cgggc当地gag cgtgaaagtg	60
agctgcaaag cctccggata taccttacc agctattata tgc当地gggt cgc当地	120
cctggcagg gtctcgagtg gatggc当地g attaaccga atagc当地gg cacgaactac	180
gcgcagaagt ttcagggccg ggtgaccatg acccgtgata ccagcattag caccgcgtat	240
atggaactga gcagcctgcg tagcgaagat acggccgtgt attattgcgc gcgtgattgg	300
ggccaaggca ccctggtgac ggttagctca gc	332

<210> 75
<211> 378
<212> DNA

81408-4400 sequence listing.txt

<213> Artificial Sequence

<220>

<223> polynucleotide sequence of a VH domain

<400> 75

caggtgcaat	tggttcagag	cggcgcgaa	gtaaaaaac	cgggcgcgag	cgtgaaagt	60
agctgcaaag	cctccggata	taccttacc	agctattata	tgcactgggt	ccgccaagcc	120
cctggcagg	gtctcgagtg	gatgggctgg	attaacccga	atagcggcgg	cacgaactac	180
gcgcagaagt	ttcagggccg	ggtgaccatg	acccgtgata	ccagcattag	caccgcgtat	240
atggaactga	gcagcctgct	tagcgaagat	acggccgtgt	attattgcgc	gcgtaatatg	300
gcttatacta	attatcagta	tgttaatatg	cctcattttg	attattgggg	ccaaggcacc	360
ctggtgacgg	ttagctca					378

<210> 76

<211> 378

<212> DNA

<213> Artificial Sequence

<220>

<223> polynucleotide sequence of a VH domain

<400> 76

caggtgcaat	tggttcagag	cggcgcgaa	gtaaaaaac	cgggcgcgag	cgtgaaagt	60
agctgcaaag	cctccggata	taccttacc	agctattata	tgcactgggt	ccgccaagcc	120
cctggcagg	gtctcgagtg	gatgggctgg	attaacccga	atagcggcgg	cacgaactac	180
gcgcagaagt	ttcagggccg	ggtgaccatg	acccgtgata	ccagcattag	caccgcgtat	240
atggaactga	gcagcctgct	tagcgaagat	acggccgtgt	attattgcgc	gcgttctatg	300
aattctacta	tgtattggta	tcttcgtcgt	gttcttttg	atcattgggg	ccaaggcacc	360
ctggtgacgg	ttagctca					378

<210> 77

<211> 354

<212> DNA

<213> Artificial Sequence

<220>

<223> polynucleotide sequence of a VH domain

<400> 77

caggtgcaat	tggttcagag	cggcgcgaa	gtaaaaaac	cgggcgcgag	cgtgaaagt	60
agctgcaaag	cctccggata	taccttacc	agctattata	tgcactgggt	ccgccaagcc	120
cctggcagg	gtctcgagtg	gatgggctgg	attaacccga	atagcggcgg	cacgaactac	180
gcgcagaagt	ttcagggccg	ggtgaccatg	acccgtgata	ccagcattag	caccgcgtat	240
atggaactga	gcagcctgct	tagcgaagat	acggccgtgt	attattgcgc	gcgtgatttt	300

81408-4400 sequence listing.txt

cttggttatg agttttagtta ttggggccaa ggcaccctgg tgacggtag ctca 354

<210> 78

<211> 378

<212> DNA

<213> Artificial Sequence

<220>

<223> polynucleotide sequence of a VH domain

<400> 78

caggtgcaat tggttcagag cggcgcggaa gtaaaaaac cgggcgcgag cgtgaaatg 60

agctgcaaag cctccggata taccttacc agctattata tgcactgggt ccgccaagcc 120

cctggcagg gtctcgagt gatggctgg attaaccga atagcggcgg cacgaactac 180

gcgcagaagt ttcagggccg ggtgaccatg acccgtata ccagcattag caccgcgtat 240

atggaactga gcagcctgca tagcgaagat acggccgtgt attattgcgc gcgttattat 300

ggttcttc tttatcatta tgttttgggt gttttattt attattgggg ccaaggcacc 360

ctggtgacgg ttagctca 378

<210> 79

<211> 378

<212> DNA

<213> Artificial Sequence

<220>

<223> polynucleotide sequence of a VH domain

<400> 79

caggtgcaat tggttcagag cggcgcggaa gtaaaaaac cgggcgcgag cgtgaaatg 60

agctgcaaag cctccggata taccttacc agctattata tgcactgggt ccgccaagcc 120

cctggcagg gtctcgagt gatggctgg attaaccga atagcggcgg cacgaactac 180

gcgcagaagt ttcagggccg ggtgaccatg acccgtata ccagcattag caccgcgtat 240

atggaactga gcagcctgca tagcgaagat acggccgtgt attattgcgc gcgtggattat 300

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ctggtgacgg ttagctca 378

<210> 80

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> polynucleotide sequence of a VH domain

<400> 80

caggtgcaat tggttcagag cggcgcggaa gtaaaaaac cgggcgcgag cgtgaaatg 60

81408-4400 sequence listing.txt

agctgcaaag cctccggata taccttacc agctattata tgcactgggt ccgccaagcc	120
cctgggcagg gtctcgagtg gatgggctgg attaaccga atagcggcgg cacgaactac	180
gcmcagaagt ttcagggccg ggtgaccatg acccgtgata ccagcattag caccgcgtat	240
atggaactga gcagcctgctg tagcgaagat acggccgtgt attattgcgc gcgtacttgg	300
cagtattctt attttattta tcttgcgtt ggttattatt ttgatatttgc gggccaaaggc	360
accctggta cggttagctc a	381
<210> 81	
<211> 335	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VH domain	
<220>	
<221> misc_feature	
<222> (1)..(3)	
<223> NNN=GAA OR CAG	
<400> 81	
nnngtcaat tgaaagaaag cggccggcc ctggtaaac cgacccaaac cctgaccctg	60
acctgtacct tttccggatt tagcctgtcc acgtctggcg ttggcgtggg ctggattcgc	120
cagccgcctg ggaaagccct cgagtggctg gctctgattt attggatga tgataagtat	180
tatagcacca gcctgaaaac gcgtctgacc attagcaaag atacttcgaa aaatcaggtg	240
gtgctgacta tgaccaacat ggacccgggtg gatacggcca cctattatttgc cgcgcgtat	300
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<210> 82	
<211> 390	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> polynucleotide sequence of a VH domain	
<400> 82	
caggtgcaat tgaaagaaag cggccggcc ctggtaaac cgacccaaac cctgaccctg	60
acctgtacct tttccggatt tagcctgtcc acgtctggcg ttggcgtggg ctggattcgc	120
cagccgcctg ggaaagccct cgagtggctg gctctgattt attggatga tgataagtat	180
tatagcacca gcctgaaaac gcgtctgacc attagcaaag atacttcgaa aaatcaggtg	240
gtgctgacta tgaccaacat ggacccgggtg gatacggcca cctattatttgc cgcgcgtat	300
cattcttgggt atgagatggg ttattatgg tctactgtt gttatatgtt tgattattgg	360
ggccaaaggca ccctggta cggttagctca	390

81408-4400 sequence listing.txt

<210> 83
<211> 341
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

.<220>
<221> misc_feature
<222> (1)..(3)
<223> NNN=GAA OR CAG

<400> 83
nnngtgc~~aa~~at tgcaacagtc tgg~~tccgggc~~ ctgg~~tgaa~~ac cgagccaaac cctgagc~~cctg~~
ac~~ctgtgc~~ga tttccggaga tagcgtg~~agc~~ agcaacagcg cggcgtggaa ctggattcgc
cag~~tctc~~c~~ctg~~ ggcgtgg~~cct~~ cgagtggctg ggccgtac~~ctt~~ attatcgt~~gat~~ caa~~atgg~~tat
aacgattatg cgg~~tgag~~cg~~t~~ gaaaagccgg attaccatca acc~~ccgg~~atac ttcgaaaaac
cagtttagcc tgcaactgaa cagcgtgacc c~~cg~~gaagata cggcgtgta ttattgc~~cg~~cg
cgtgattggg gccaaggcac cctgg~~tgac~~g gttagct~~ca~~g c 341

<210> 84
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> polynucleotide sequence of a VH domain

<400> 84
caggtgc~~aa~~at tgcaacagtc tgg~~tccgggc~~ ctgg~~tgaa~~ac cgagccaaac cctgagc~~cctg~~
ac~~ctgtgc~~ga tttccggaga tagcgtg~~agc~~ agcaacagcg cggcgtggaa ctggattcgc
cag~~tctc~~c~~ctg~~ ggcgtgg~~cct~~ cgagtggctg ggccgtac~~ctt~~ attatcgt~~gat~~ caa~~atgg~~tat
aacgattatg cgg~~tgag~~cg~~t~~ gaaaagccgg attaccatca acc~~ccgg~~atac ttcgaaaaac
cagtttagcc tgcaactgaa cagcgtgacc c~~cg~~gaagata cggcgtgta ttattgc~~cg~~cg
cgttcttatt atcctgattt tgattattgg gccaaggca ccctgg~~tgac~~g gttagct~~ca~~ 360

<210> 85
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VL domain

<400> 85

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
Page 37

81408-4400 sequence listing.txt

1

5

10

15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ala Leu Gly Asp Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Tyr Ser Ala Asp Tyr
85 90 95

Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 86

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> polypeptide sequence of a VL domain

<400> 86

Asp Ile Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser His His Phe Tyr
85 90 95

Glu Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

81408-4400 sequence listing.txt

<210> 87
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VL domain

<400> 87

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ala Leu Gly Asp Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Phe Asp Phe Ala Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 88
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VL domain

<400> 88

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Arg Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
Page 39

50 81408-4400 sequence listing.txt
55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Asp Ser Ile Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg Thr
115

<210> 89
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VL domain

<400> 89

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Met Ser Asn Tyr Pro
85 90 95

Asp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

<210> 90
<211> 112
<212> PRT
<213> Artificial Sequence

<220>

81408-4400 sequence listing.txt

<223> polypeptide sequence of a VL domain

<400> 90

Asp Ile Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Asn Asn
85 90 95

Ser Asp Val Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 91

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VL domain

<400> 91

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Phe Gln Tyr Gly Ser Ile Pro Pro
Page 41

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
 100 105

<210> 92
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> polypeptide sequence of a VL domain

<400> 92

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Asn Asn Ala Pro
 85 90 95

Val Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
 100 105 110

<210> 93
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> polypeptide sequence of a VL domain

<400> 93

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
 1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ala Leu Gly Asp Lys Tyr Ala
 20 25 30

81408-4400 sequence listing.txt

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Tyr Phe Lys Leu Val
85 90 95

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 94

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VL domain

<400> 94

Asp Ile Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Met Tyr
85 90 95

Asn Tyr Ile Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 95

<211> 109

<212> PRT

<213> Artificial Sequence

81408-4400 sequence listing.txt

<220>

<223> polypeptide sequence of a VL domain

<400> 95

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ala Leu Gly Asp Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Gly Pro Asp Leu Trp
85 90 95

Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 96

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VH domain

<400> 96

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

81408-4400 sequence listing.txt

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Phe Leu Gly Tyr Glu Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 97
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VH domain

<400> 97

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Tyr Tyr Gly Ser Ser Leu Tyr His Tyr Val Phe Gly Gly Phe
100 105 110

Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 98
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VH domain

<400> 98

81408-4400 sequence listing.txt

Gln Val Gln Leu Lys Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
1 5 10 15

Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30

Gly Val Gly Val Gly Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu
35 40 45

Trp Leu Ala Leu Ile Asp Trp Asp Asp Asp Lys Tyr Tyr Ser Thr Ser
50 55 60

Leu Lys Thr Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Arg Tyr His Ser Trp Tyr Glu Met Gly Tyr Tyr Gly Ser Thr
100 105 110

Val Gly Tyr Met Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
115 120 125

Ser Ser
130

<210> 99
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> polypeptide sequence of a VH domain

<400> 99

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

81408-4400 sequence listing.txt

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Asn Trp Phe Lys Pro Phe Ser Asp Val Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 100

<211> 119

<212> PRT

<213> Artificial sequence

<220>

<223> polypeptide sequence of a VH domain

<400> 100

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Asn His Trp Thr Tyr Thr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 101

<211> 126

<212> PRT

<213> Artificial sequence

81408-4400 sequence listing.txt

<220>

<223> polypeptide sequence of a VH domain

<400> 101

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Tyr Trp Tyr Ala Tyr Phe Thr Tyr Ile Asn Tyr Gly Tyr
100 105 110

Phe Asp Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 102

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VH domain

<400> 102

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

81408-4400 sequence listing.txt

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Gly Trp Val Ser His Gly Tyr Tyr Tyr Leu Phe Asp
100 105 110

Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 103

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VH domain

<400> 103

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Thr Trp Gln Tyr Ser Tyr Phe Tyr Tyr Leu Asp Gly Gly Tyr
100 105 110

Tyr Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 104

<211> 126

<212> PRT

<213> Artificial Sequence

81408-4400 sequence listing.txt

<220>

<223> polypeptide sequence of a VH domain

<400> 104

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asn Met Ala Tyr Thr Asn Tyr Gln Tyr Val Asn Met Pro His
100 105 110

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 105

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VH domain

<400> 105

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60

81408-4400 sequence listing.txt

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Met Asn Ser Thr Met Tyr Trp Tyr Leu Arg Arg Val Leu
100 105 110

Phe Asp His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 106

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> polypeptide sequence of a VH domain

<400> 106

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30

Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Ser Tyr Tyr Pro Asp Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120